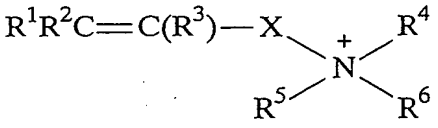
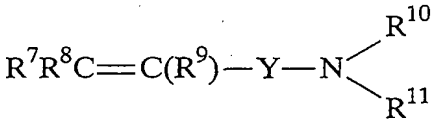
CLAIMS

1. An antifouling detergent for hard surfaces, comprising a polymer comprising a monomer unit A having at least one substituent selected from the group consisting of amino groups and quaternary ammonium groups and a monomer unit B represented by $-SO_2-$, wherein the content of the monomer unit A in the whole monomer units is 10 to 99 mol-% and the molar ratio of the monomer unit B/the monomer unit A is from 0.01 to 1.

2. The antifouling detergent for hard surfaces according to claim 1, wherein the monomer unit A is derived from a compound represented by the general formula (1) below and/or a compound represented by the general formula (2) below:



(1)



(2)

wherein R^1, R^2, R^3, R^7, R^8 and R^9 each represent a hydrogen atom, a hydroxyl group or a C_{1-3} alkyl group; each of X and Y is a group selected from the group consisting of a C_{1-12} alkylene group, $-COOR^{12}-$, $-CONHR^{12}-$, $-OCOR^{12}-$ and $-R^{13}-OCO-R^{12}-$ whereupon R^{12} and R^{13} each represent a C_{1-5} alkylene group; R^4 represents a C_{1-3} alkyl group, a C_{1-3} hydroxyalkyl group or $R^1R^2C=C(R^3)-X-$; R^5 represents a C_{1-3} alkyl group, a C_{1-3} hydroxyalkyl group or a benzyl group; R^6 represents a C_{1-10} alkyl group which may be substituted with

a hydroxy group, a carboxyl group, a sulfonate group or a sulfate group or a benzyl group, provided that when R^6 is an alkyl group, a hydroxyalkyl group or a benzyl group, Z^- represents an anion and when R^6 contains a carboxyl group, a sulfonate group and a sulfate group, Z^- is absent, but these groups of R^6 are anions; R^{10} represents a hydrogen atom, a C_{1-3} alkyl group, a C_{1-3} hydroxyalkyl group or $R^7R^8C=C(R^9)-Y-$; and R^{11} represents a hydrogen atom, a C_{1-3} alkyl or a C_{1-3} hydroxyalkyl group.

3. An antifouling detergent composition for hard surfaces, comprising the polymer (a) described in claim 1 and a surfactant (b)

4. The antifouling detergent composition for hard surfaces according to claim 3, wherein the surfactant (b) is a cationic surfactant.

5. A method of antifouling and washing hard surfaces, which comprises treating the hard surfaces with the polymer described in claim 1 or the composition described in claim 2.

6. The method according to claim 5, wherein the hard surfaces are those of toilet bowl.

7. Use of the polymer described in claim 1 or the composition described in claim 2 as an antifouling detergent for hard surfaces.